Roll No.									

Institute of Engineering and Technology

Dr. Shakuntala Misra National Rehabilitation University, Lucknow

Department of Mechanical High-strengthessional Test–1

Sem & Year: Ist & 1st **Session: 2023-24**

Subject: Manufacturing Process **Code: TES-104**

Duration: 1:30 hours + 15 min per hour Extra time for VI students and examinees with writer. **Max. Marks: 20**

Section - A

Objective Questions

1. Answer all Questions. **(1×5=5Marks)**

1. Which allowance is not provided on the "pattern" made for a casting

a) Machining allowance b)Solidification allowance

c) Draft allowance d) Shrinkage allowance

2. The strength of steel increases with increasing carbon %age in the range.

a) 0–0.8% b) 1.2–2%

c) 0.8–1.2% d) all of these ranges

3. Aluminum alloys find use in aircraft industry because of-

a) High strength b) low sp. Gravity

c) good corrosion resistance d) good weldability.

4. "Alligatoring" is a defect associated with-

(a) Forging process (b) casting process

(c) extrusion process (d) rolling process

5. Mild steel is an alloy of iron and carbon with % of carbon ranging from-

a) Up to 0.2% (b) 0.15-0.3% (c) 0.3-0.5 (d) above 0.5%

Section - B

Short Answer Questions

2. Answer any five Questions. **(2×5=10Marks)**

1. Define Strength, & Malleability.

2. Define Manufacturing, & Manufacturing Process.
3. Define Resilience and Creep.
4. What is Pig iron & Cast iron?
5. Define Casting. Write three advantage of Casting.
6. Define Pattern and Pattern Allowances.

Section - C
Descriptive Questions

3. Answer any one Questions. **(5×1=5Marks)**

1. What do you understand by Engineering Materials? Classify Engineering materials and also Define Metal and Non Metals.
2. Define moulding sand and its types.